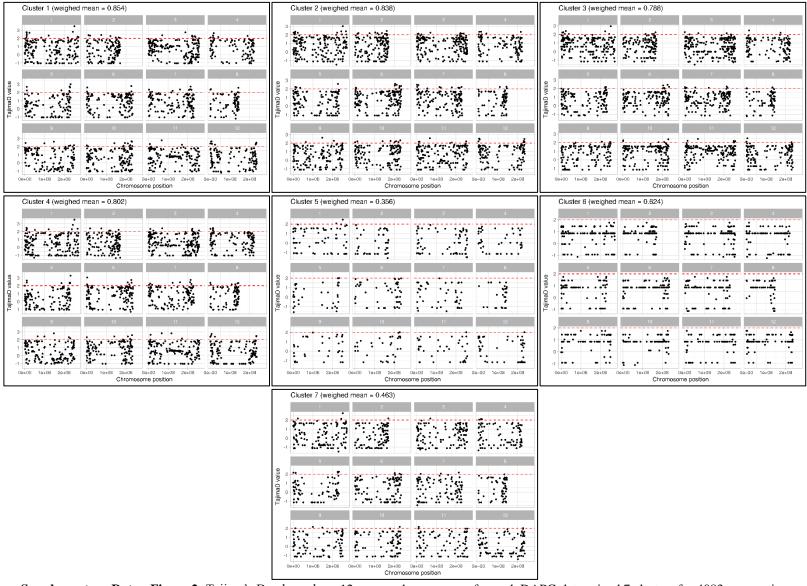


| Chromosome | Raw VCF | Filtered VCF |
|-------------|---------|--------------|
| 1 | 56.057 | 446 |
| 2 | 44.746 | 332 |
| 3 | 58.705 | 474 |
| 4 | 42.066 | 293 |
| 5 | 41.999 | 320 |
| 6 | 49.735 | 369 |
| 7 | 41.546 | 327 |
| 8 | 29.595 | 232 |
| 9 | 39.779 | 304 |
| 10 | 41.922 | 305 |
| 11 | 43.477 | 333 |
| 12 | 42.053 | 348 |
| Total SNP's | 531.680 | 4.083 |

Supplementary Data - Figure 1: A) SNPs distribution along the 12 pepper chromosomes for raw (unfiltered) VCF with a total of 531.680 SNPs. **B)** SNPs distribution along the 12 pepper chromosomes for SNPRelate filtered VCF with a total of 4083 SNPs. **C)** Number of SNPs selected per chromosome for both raw (unfiltered) and filtered VCFs.



Supplementary Data - Figure 2: Tajima's D values along 12 pepper chromosomes for each DAPC-determined 7 clusters for 4083 segregating sites and correspondent weighed mean. Red dashed line indicates high probability of positive selection.